No.



9500257

THE DAINED SHAMES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Terral-Aorris Seed Company

Augusts, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR NOTIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A UD OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION 84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'Terral TV 5495'

In Testimony Mexicos, I have hereunto set my hand and caused the seal of the Minnt Naviety Arcticism Office to be affixed at the City of Washington, D.C. this thirtieth day of June in the year of our Lord one thousand nine hundred and ninety-seven.

n M

Secretary of Agriculture

Allest

Marsha A. S.

Commissioner Plant Variety Protection Office Agricultural Marketing Service

U.S. DEPARTMENT OF AGRICULT	ate on all reproductions. URE	The following statement	FORM APPROVED - OMB NO. 058	
AGRICULTURAL MARKETING SER SCIENCE DIVISION - PLANT VARIETY PROTE	The following statements are made in accordance with the Privacy A 1974 (5 U.S.C. 552a).			
	Application is required in order to determine if a plant variety prote			
APPLICATION FOR PLANT VARIETY PROT	certificate is to be issued (7 U.S. until certificate is issued (7 U.S.)	.C. 2421). Information is held confi		
1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME	
Terral-Norris Seed Company		TVX 5495	Terral TV5495	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code,	And Country)			
,, with 151 Good,	, and Country;	5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY	
604 Blount Street	•		PVPG NUMBER	
Lake Providence, LA 71254	· · · · · · · · · · · · · · · · · · ·	318-559-2840	9500257	
Lake 110vidence, LA /1254		6. FAX (include area code)	DATE	
			i ,	
		318-559-2888	1 July 17, 194	
7. GENUS AND SPECIES NAME	B. FAMILY NAME (Botan	<u></u>	G // FILING AND EXAMINATION FEE:	
Glycine max	Leguminosae		[1 <u>2325.</u> €#125.	
9. CROP KIND NAME (Common name)			E DATE	
Soybean		•	2 07/17/95 EUE/OT	
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF O	RGANIZATION (CERTIFICATION FEE	
Corporation	INCOMENCION (CORporation, partnersh)	ip, essociation, etc.) (Common name)	1.3000	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		12 DATE OF BIGGROOM		
	•	12. DATE OF INCORPORATION	E DATE	
Louisiana 13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY	<u> </u>	1953	1 06 09 93	
P. O. Box 826 Lake Providence, LA 71254 16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED A. Exhibit A. Origin and Breeding History of the Variety	(Follow instructions on reverse)		15. FAX (include area code)	
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EXHIBIT A

TERRAL-NORRIS SEED COMPANY'S APPLICATION FOR TERRAL TV 5495

ORIGIN AND BREEDING HISTORY

1982 -	Cross made between DP 415 and A 5980
1986 -	F₁ grown in field
1987 -	F ₂ advanced to F ₄ in winter nursery and USA
1988 -	F ₄ plant selections pulled
1989 -	An F_5 plant row 89-45646 was selected, composited and
	determined to be stable and breeding true for major
	characteristics listed in Exhibit C of this
	application. No variants were known or observed at
	this time.
1990 -	Entered into midsouth preliminary tests
1991-92 -	Tested in Advanced yield tests across the midsouth and
•	southeast at 7 locations in 1991 and 14 locations in
	1992. Seed increase was begun and off-type plants were
	removed from the seed stocks.
1993 -	Tested again at 12 locations across the midsouth and
	southeast and a few state trials
1994 -	Tested broadly in state experimental station trials.
A Committee of the Comm	Released as Terral TV 5495.
	1.01.04.000.4.01.14.1.1.0.1.0.1.

EXHIBIT B

TERRAL SEED, INC. APPLICATION FOR TERRAL TV5495

To our knowledge Terral TV5495 most closely resembles A 5980, Terra-Vig 5555, and DP 3589. It differs from A 5980, Terra-Vig 5555, and DP 3589, but is not necessarily restricted to the following:

- 1. Terral TV5495 differs from A5980 in that Terral TV5495 is resistant to stem canker and A 5980 is susceptible.
- 2. Terral TV5495 differs from Terra-Vig 5555 in that Terral TV5495 excludes chlorine form its roots and is tolerant to high chloride soils whereas Terra-Vig 5555 includes chlorine in its roots and is sensitive to high chloride soils and DP 3589 segregates for chloride sensitivity.
- 3. 'Terral TV5495 is significantly shorter than 'DP 3589' (see attached data sheet).

Terral TV5495 31 inches tall, DP 3589 37 inches tall (LSD_{0.10} 2, CV=11.9%).

U.S.: DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE

PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

EXITIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATIO	N VARIETY NAME
Terral-Norris Seed Company		
ADDRESS (Spect and No., or R.F.D. No., City, State, and Zit	TVX 5495	Terral TV 5495
604 Blount Street	Codey	FOR OFFICIAL USE ONLY
Lake Providence, LA 71254		9500257
Choose the appropriate response which characterizes the in your answer is lower than the number of boxes proving Starred characters & are considered fundamental to an a when information is available. 1. SEED SHAPE:	ded: Dizoe a tem in the lime hav	when number is 0 or least are
2 L L L L L L L L L	[v] T	
3 - Bongate (L/T ratio > 1.2; T/W - < 1.2)	2 = Spherical Flattened 4 = Elongate Flattened	(LW ratio > 1.2; LT ratio = < 1.2) (LT ratio > 1.2; T/W > 1.2)
SEED COAT COLOR: (Mature Seed)		
1 - Yellow 2 - Green 3 - Brown	4 = Black , 5 = Other	(Specify)
SEED COAT-LUSTER: (Mature Hand Shelled Sced)	•	
2 1 - Dull ("Corsoy 79": "Braxton") 2 - Shiny ("Ne	ebsoy': 'Gasoy 17')	
SEED SIZE: (Mature Soed)		
4 Grams per 100 seeds		
HILUM COLOR: (Mature Seed)		
6 1 - Buff 2 - Yellow 3 - Brown	A = Gray 5 = Imperfect Bla	ck 6 = Black 7 = Other (Specify)
COTYLEDON COLOR: (Mature Seed)	Service - Commence - C	
1 - Yellow 2 - Green		
SEED PROTEIN PEROXIDASE ACTIVITY:		Name of the second of the seco
1 - Low 2 - High		
SEED PROTEIN ELECTROPHORETIC BAND:		
1 - Type A (SP12) 2 - Type B (SP1b)		
HYPOCOTYL COLOR:		
3 1 " Green only ('Evans': 'Davis') 2 " Green w	ith bronze band below cotyledons (1	Yoodworth'; "Tracy"]
- 2 A Cott Coolis (Dector . McPatt 41	': 'Coker Hampton 266A')	
4 - Dark Purple extending to unifoliate leaves ('Hodgson LEAFLET SHAPE:	': 'Coker Hampton 266A'I	

Brown Stem Rot (Cephalosporium gregatum)

Stem Canker (Diaporthe phaseolorum var. caulivora)

19.	DISE	SÉ RÉAÉTION	1:-{Enter 0 = Not 1	ected: 1 = Succepti	ble:2=Rescunt	(Continued)			். வ.ர	
	FUN	IGAL DISEASE	ES: (Continued)						75	000257
*	0	Pod and Sten	n Blight <i>(Disporthe</i>	phaseolorum var; s	ojeci				Tangara Tangaran	
	0	Pumle Seed S	Stain (Cercospora k	ikuchiil					•	
	0	Rhizoctonia (Root Rot (Rhizocta	onia solanij			:			
		Phytophthora	Rot (Phytophthor	a megasperma var.	sojeci		, 			
*	1	Race 1	Race 2	Race 3	Race 4	Race 5		Race 6	L R	ace 7
		Race 8	Race 9	Other (Spe	cilyl			·		
	VIR	AL DISEASES:				in ed National grands			i Tagasa	e de V
	0	Bud Blight (T	obacco Ringspot V	· · · · · · · · · · · · · · · · · · ·						, en l'en l'
	0	Yellow Mossi	c (Bean Yellow Mo:	saic Virus)	٠.		**			SAME TO SAME
*		Cowpea Moss	ic (Cowpea Chlorot	ic Virus!						
	0	Pod Mottle (8	lean Pod Mottle Vir	us)					٠	
*	2	Seed Mottle (Soybean Mosaic Vie	rus)			•			
	NEM	ATODE DISEA	SES:							
		Soybean Cyst	Nematode (Hetero	dera olycines)						
*		Race 1	Race 2	2 Race 3	Race 4	1 Otter (Sc	ocity!R	ace 14		
	0	Lance Nemato	ode (Hoplolsimus C	olombus)		i				
*	$\overline{\Box}$	Southern Roo	t Knot Nematode /	Melaidagyne incog	nit =	•				
*		Northern Roo	t Knot Nematode (Meloidogyne Hapla	ı)		٠	·	<i>(</i>	
-		Peanut Root k	Cnot Nematode (Me	eloidogyne arenaria	1				•	
		Reniform Nea	natode (Rotylenchu	ilus reniformis)			•			
•	H	OTHER DISE	ASE NOT ON FOR	IM (Specify):						
			1	- 11111		<u> </u>	·			
20; P	HYSIC	LOGICAL RES	SPONSES: (Enter () = Not Tested; 1 =	Susceptible: 2 = R	estictiont				
*		Iron Chlorosis	on Calcareous Soil							
•	2	Other (Specify	High chlo	ride soils	· · · · ·		<u> </u>	-3		
21. INSECT REACTION: (Enter 0 = Not Texted; 1 = Susceptible; 2 = Resistant)										
	1	Mexican Bean	Beetle (<i>Epilachna</i> (rarivestůs]		6207		e distribution		
	$\begin{bmatrix} 2 \end{bmatrix}$	Potato Leaf H	opper (Empossos fa	ibac						
		Other (Specify	1 <u>.</u>						_	•
22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.										
 .	CHAR	ACTER	NAM	OF VARIETY	Ct	ARACTER		NAME OF	VARIE	ry
P	lant Sh	ape .	DP 3589		Seed	Cost Luster	TV	555 <u>5</u>		
t	eaf Sha	pe	DP 3589		Seed	Size	TV	5555		
τ.	eaf Col	Or	TRACY		Seed	Shape	DP	3589		· · ·
	eaf Size	: 	DP 3589		Seed	ling Pigmentation	DP	3589	<u> </u>	
			1 5. 5.6			4 / 4 4 4 4 5 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1				

21. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS L	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		S€€0 SIZ€ G/100	NO.
				CM Midely .	CM Length	X Fratela	× Oit	SEEDS	500 2EED21
:TEALATVT5495	130	2.4	83			37.7	1773	14.2	
DP 3589 Name of Similar Variety	134	2.2	91			36.7	18\$2	15.1	

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Oldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell, 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3: Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean gemplesm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivary by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

70: LIV LI 70° S6.

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EXHIBIT D

TERRAL-NORRIS SEED COMPANY'S APPLICATION FOR TERRAL TV 5495

ADDITIONAL DESCRIPTION OF VARIETY

Terral TV 5495 is an F_4 selection composited in the F_5 generation from the cross DP 415 X A 5980. It has shown higher yield potential than DP 105, Hutcheson or DP 415.

Terral TV 5495 is mid-group V maturity with purple flowers, tawny pubescence and tan pods. Seeds are shiny yellow with black hila averaging 3200 seeds per pound. Terral TV 5495 averages 2 days later than DP 415 and 4 days earlier than DP 105. It has averaged 3% and 5% higher in yield than DP 415 and DP 105, respectively.

Terral TV 5495 has resistance to race 3 soybean cyst nematode and tolerance to race 14. It shows resistance to stem canker, moderate resistance to aerial blight and tolerance to high chloride soils. Because of its taller height and good performance on clay and cyst infested soils, it will be a good mid-group V with adaptability to tougher conditions where additional height is needed.

REPRODUCE LOCALLY. Include form number and date on all reproductions.	FORM OVED - OMB N	O. 0581-0055 EXPIRES: 12-31-9
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made	le in accordance with the Privacy Act
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE	1974 (5 U.S.C. 552a) and the Pap	erwork Reduction Act (PRA) of 1995.
EXHIBIT E	Application is required in order to	determine if a plant variety protection
STATEMENT OF THE BASIS OF OWNERSHIP	until certificate is to be issued (7 U.S.C.	2. 2421). Information is held confidential 2426).
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME
	OR EXPERIMENTAL NUMBER	S. VARIETY MAINE
Terral Seed, Inc.	Terral TVX5495	Terral TV5495
		·
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)		
P.O. Box 826	5. TELEPHONE (include area code)	6. FAX (include area code)
604 Blount St.	(318) 559-2840	(318) 559-2888
Lake Providence, LA 71254	7. PVPO NUMBER	
		•
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate	block. If no, please explain.	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	X YES NO
O bake and a feet of		· ·
 Is the applicant (individual or company) a U.S. national or U.S. based compan If no, give name of country 	y?	X YES NO
10. Is the applicant the original breeder? If no, please answer the following:	77.	
a. If original rights to variety were owned by individual(s):	·	YES X NO
Is (are) the original breeder(s) a U.S. national(s)? If no, give name of	country	
		•
		<u> </u>
b. If original rights to variety were owned by a company:		X YES NO
is the original breeder(s) U.S. based company? If no, give name of co	untry	
	·	
11. Additional explantion on ownership (If needed, use reverse for extra space):		
Terral Seed, Inc. is the owner of Terral TV5495 thr	ough purchase of the	variety.
PLEASE NOTE:		
Plant variety protection can be afforded only to owners (not licensees) who meet o		
who meet o	one of the following criteria:	
 If the rights to the variety are owned by the original breeder, that person must of a country which affords similar protection to nationals of the U.S. for the sai 	be a U.S. national, national of a U me genus and species.	POV member country, or national
. If the rights to the variety are owned by the company which employed the originationals of a UPOV member country, or owned by nationals of a country which genus and species.	inal breeder(s), the company must a affords similar protection to natio	be U.S. based, owned by nais of the U.S. for the same
If the applicant is an owner who is not the original broader, both the artist of the	and an analysis of the same of	

n owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

Public reporting burden for this collection of information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other espect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter.

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